<110> Masure, Stefan
     Cik, Miroslav
     Hoefnagel, Evert

<120> Neurotrophic Factor Receptor

<130> 53202/001

<140> PCT/EP00/04918
<141> 2000-05-26

<150> GB 9915200.1
<151> 1999-05-29

<160> 31

<170> PatentIn Ver. 2.0

<210> 1
<211> 792
<212> DNA
<213> Mus musculus

<220>
<221> misc_feature
<222> (583)..(583)
<223> n = any amino acid

<220>
<221> misc_feature
<222> (611)..(611)
<223> n = any amino acid

<220>
<221> misc_feature
<222> (637)..(637)
<223> n = any amino acid

<220>
<221> misc_feature
<222> (664)..(664)
<223> n = any amino acid

<220>
<221> misc_feature
<222> (684)..(684)
<223> n = any amino acid

<220>
<221> misc_feature
<222> (689)..(689)

<223> n = any amino acid

<220>
<221> misc_feature
<222> (728)..(728)
<223> n = any amino acid

<220>
<221> misc_feature
<222> (734)..(734)
<223> n = any amino acid

<220>
<221> misc_feature
<222> (742)..(742)
<223> n = any amino acid

<400> 1
```
gtgcgccgag cgccggcgcc agactttcgc gcccgcctgc gcgttctccg gcccgggggtt 60
ggtgccgccc tcttgcctgg agcccctgga gcgctgcgag cgcagccgcc tgtgccggtg 120
cgtgcgtgcg gggcgggctg ggccgctcac ccgcgtccgg gcgcgcgcag gccccgtctc 180
cttgccttcc aggcctcatg cgctcccgcg cccggctccc gcgaccgctg cccggaggag 240
gggggcccgc gttgtctgcg cgtctacgca ggcctcatgg gcaccgtggt cacccccaac 300
tacctggaca acgtgagcgc gcgcgttgcg ccctggtgcg gctgtgcggc cagtggaaac 360
cggcgcgaag aatgcgaagc cttccgcaag ctctttacaa ggaacccctg cttgggtgag 420
ggggcctgga ggtcccgggg aaccacggat gtctgtggcc caatccaagc tgcctggccc 480
gtgggtctta tttacgtcgc atcatgtttg gtgtgggcga tggacaatgt gcacatgcca 540
tggtacgtgg gtggaagtca agcgttaaaa cgtgtccaat ggnctggaag ttggccttcc 600
ttttgacact natggggtgg gcctttcttc atggtgngcc caacttacct ttggttggtc 660
ttgnctctgg gtgggaatgg cttnaattnc agaattttgg gggtcttgtt tgaagcctgg 720
cttttgcnct taanaacttg anaagttaaa ctcttattaa tcccaatggg gttcacctgt 780
                                                             792
aaagggagag gg
```


<210> 2
<211> 497
<212> DNA
<213> Mus musculus

<400> 2
```
gtggaaccgg cgcgaagaat gcgaaccttc cgcaagctct ttacaaggaa cccctgcttg 60
gatggtgcca tacaagcctt tgacagcttg cagccatcag ttctgcagga ccagactgct 120
gggtgctgtt tcccgcgggc aaggcacgag tggcctgaga agagctggag gcagaaacag 180
tccttgtttt gtcctaacgc ccaaggtgtc ctggctgtat gcactcactg ccctggctct 240
ccaggccctg ctctgattag gaacatgaac cgtggacgac acagctgact gccatgtctc 300
ccgatgactg ctcactgagc tgaaactccc ttgccctcag gtctgctgcc ctttgcaggc 360
ctggaccct gtgtggctgt cctctggatt gggggctgga ggctagggtc tgactgaaaa 420
gcctgtgttc ccgtcagtag gcatcttgtc cattttcttc cccatcctag agctgagcac 480
                                                             497
ccatagatga ggcctca
```


<210> 3
<211> 901
<212> DNA
<213> Rattus rattus

<400> 3
```
ggcaccgtgg tcacccccaa ctacctggac aacgtgagcg cgcgcgttgc gccctggtgc 60
ggctgtgagg ccagcggaaa ccggcgcgaa gagtgcgaag ccttccgcaa gcttttttaca 120
aggaacccct gcttggatgg tgccatacaa gcctttgaca gctcgcaacc atcagttctg 180
caggaccagt ggaacccta ccagaatgct gggtgctgtt tcctgtgggt gtcctcgatg 240
tccatactca ctgccctggc tctccaggcc ctgctcactga actgaaactc ccttgccctc 360
aacacagctg actgccatgt ctctggatta tgctcactga actgaaactc ccttgccctc 360
aggtctgctg tcctttgcag ttctggaccc ctgcatggct gtctcgcctg ttttcttcac 480
gaggctaggg cccgactgtt aggttcccct gttagtaggc atctcgcctg ttttcttcac 480
catccttgag atgatggtag atgatattta gcacctgtag acagggcctc attgggcccc 540
ttgggcttac agagcagaac agagactagc ctcctgctct tagaattggg tagtgttctt 600
ttccaagaag acatggcact aaggcgatca tatgaacaga ctgacagact gcagtctaaa 660
tacccatgcc ccagggccag cgctgacctt gcttgtcacc tatgacatgg cgctgtgtag 720
ggattaaaga gagagattca ggtccctcct gctggacatc ccactggcct cccagactct 780
cccagcacct gcagtggcac agcagctcaa taaacccatg tgcactggaa aaaaaaaaa 840
aaaaaaaaa aaaaaaaaa aaaaaaaaa aaaaaaaaa aaaagaaaa aaaaaaaaa 900
a                                                              901
```

<210> 4
<211> 872
<212> DNA
<213> Rattus rattus

<400> 4
```
gtatggggag aggatgtgga gttggcagtt tctcatcgtt cccttctgta tttacccttc 60
tcaggcaggc caaggtggag gcctgagtgg cctgagaaga gatggaggca gaaacggtcc 120
ccgtttttgtc ccaaggtgtc ctcgatgtcc atactcactg ccctggctct ccaggccctg 180
ctctaattag gaaggtgaac catggacaac acagctgact gccatgtctc tggattatgc 240
tcactgaact gaaactccct tgccctcagg tctgctgtcc tttgcagttc tggacccctg 300
catggctgtc cctggactg ggagctggag gctagggccc gactgttagg ttcccctgtt 360
agtaggcatc tcgcctgttt tcttcaccat ccttgagatg atggtagatg atatttagca 420
cctgtagaca gggcctcatt gggccccttg ggcttacaga gcagaacaga gactagcctc 480
ctgctcttag aattgggtag tgttcttttc caagaagaca tggcactaag gcgatcatat 540
gaacagactg acagactgca gtctaaatac ccatgcccca gggccagcgc tgaccttgct 600
tgtcacctat gacatggcgc tgtgtaggga ttaaagagag agattcaggt ccctcctgct 660
ggacatccca ctggcctccc agactctccc agcacctgca gtggcacagc agctcaataa 720
acccatgtgc actggaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 780
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 840
aaaaaaaaaa aaaaagaaa aaaaaaaaa aa                               872
```

<210> 5
<211> 2522
<212> DNA
<213> Rattus rattus

<400> 5
```
ctggtaagct ttaaggcaga ggagacctaa gagctgagac atgctatgtt gagtggagcg 60
tatttacggg tgctgaatga gaggccaggc caggcagttt tatggagtct tggatgccag 120
agaggtaagg aggtgggaaa ggaagtacta taaacctgaa tttggtgact tggctggatt 180
tgcatatgtc cagtgccaag ttcagacata gctgccgggt ttactgatgc tactctccca 240
aggtcaggca ttctattttc ccctgaatgg cttttcatct gtgacttatc tacatcttca 300
ctgaaactac tggtaaacgt ccaggtctgt ctcagggcga agtccatgg tctgccatta 360
agcctcagtg tcctgtcagg tgaagctggg gaggatggaa ggggtccagt agacgctctg 420
tgatgcatgt gccagttctg gagatggtgg tggaggctga acctgagctt ctggggaacc 480
tccgagtact gcctccattc acgacctggg tggatatccc taggacctgc ccatgccgc 540
ttcctcagga aaaacgggtc acgcctatgg gccacactct ctcccctтgg gtttgggtat 600
ctgcccccag cccccgccaa attccggggt gtggaatgtg gagaaccaag cacagagggc 660
```

3

```
tgcagcctgc cctcccctca ccagggtcag cgagctccac tgaggggaat cgctgcgtgg 720
aagcagccga ggcgtgcaca gcagacgagc agtgccagca gctgcgctcc gagtacgtgg 780
cgcaatgcct gggccgggcg ggctggcggg gacccgggag ctgcgtgcgc tcccgctgcc 840
gccgtgccct gcgccgcttc ttcgcccgcg ggcctccggc gctcacgcac gcgctgctct 900
tctgcggatg cgaaggcccc gcgtgcgccg agcgccggcg ccagacattc gcgcccgcct 960
gcgcgttctc cggcccccag ctggcgccac cttcctgcct gaagcccttg gaccgctgcg 1020
agcgaagccg ccggtgccgg tgcgtgcggg gcgggctggg ccgctcaccg gcgtccgggc 1080
gcgcgcaggc cccgtctctt tgccttccag gcctcatgcg ctcccgcgcc cggctcccgc 1140
gacggctgtc cggaggaggg gggcccgcgg tgtctgcgcg cctacgcagg ccttgtaggt 1200
acgctgggcg gcctctggcg ggcggggcgg cggaggcaga ttccgggggc ccgtcacagg 1260
tcctgggggt ccctgcaggc accgtggtca cccccaacta cctggacaac gtgagcgcgc 1320
gcgttgcgcc ctggtgcggc tgtgaggcca gcggaaaccg gcgcgaagag tgcgaagcct 1380
tccgcaagct ttttacaagg aacccctgct tgggtgaggg ggctggagag cccgggcaac 1440
caaggacgtc tatggcccag tctaggctgc ctggcctgtg gggaccctta aaatgttttc 1500
gtcgtgtcgt atttggtgtg ggtgatggac agtgtgcacg tgccatggtg catgggtgga 1560
agtcagagga caacttgtca gtctctttct accacgtggg tccccgggat agcactgggc 1620
tcatcagttt tggtggcaag tgcctttgcc tgctgagcca tcttgctggc tgatgtgagc 1680
acatttttga tggaaagaaa ctgaggtttc cagagaccag atagccgatc actagagaat 1740
tcgagagatg tcaagaatct cttagggcta gaaaggatga gttaaaacat gtccaatgac 1800
ctggagttgg ccaaggctcc ctttggcact actgaggtct tttcctccat gtgttcccaa 1860
tttaacgctg ctgttcttgc ctcgggatga aatagcgttg ttccagattt ctgggggccc 1920
ggtttgaagc ctgtctctgc cacttcgtag ccgagagtta aactcttatt aatcctaatt 1980
gtgttcacct gtaagggcgg ggtgtgcact tgtcaacctc actcttagca cagtgacctt 2040
ccatctcagg ccgtgccttg cagattccag ggggtgtctc attttgtctc aagggagtgg 2100
agctgtttct agggtttcct ggccaaacct tctctggatc tctccactcc atagatggtg 2160
ccatacaagc ctttgacagc tcgcaaccat cagttctgca ggaccagtgg aacccctacc 2220
agaatgctgg gtgctgtttc ctgtgggtag gtatggggag aggatgtgga gttggcagtt 2280
tctcatcgtt cccttctgta tttacccttc tcaggcaggc caaggtggag gcctgagtgg 2340
cctgagaaga gatggaggca gaaacggtcc ccgtttgtc ccaaggtgtc ctcgatgtcc 2400
atactcactg ccctggctct ccaggccctg ctctaattag gaaggtgaac catggacaac 2460
acagctgact gccatgtctc tggattatgc tcactgaact gaaactccct tgccctcagg 2520
tc                                                                2522
```

```
<210> 6
<211> 953
<212> DNA
<213> Rattus rattus
```

```
<400> 6
ctggtaagct ttaaggcaga ggagacctaa gagctgagac atgctatgtt gagtggagcg 60
tatttacggg tgctgaatga gaggccaggc caggcagttt tatggagtct tggatgccag 120
agagggtcag cgagctccac tgaggggaat cgctgcgtgg aagcagccga ggcgtgcaca 180
gcagacgagc agtgccagca gctgcgctcc gagtacgtgg cgcaatgcct gggccgggcg 240
ggctggcggg gacccgggag ctgcgtgcgc tcccgctgcc gccgtgccct gcgccgcttc 300
ttcgcccgcg ggcctccggc gctcacgcac gcgctgctct tctgcggatg cgaaggcccc 360
gcgtgcgccg agcgccggcg ccagacattc gcgcccgcct gcgcgttctc cggcccccag 420
ctggcgccac cttcctgcct gaagcccttg gaccgctgcg agcgaagccg ccggtgccgg 480
ccccgtctct ttgccttcca ggcctcatgc gctcccgcgc ccggctcccg cgacggctgt 540
ccggaggagg ggggcccgcg gtgtctgcgc gcctacgcag gccttgtagg caccgtggtc 600
acccccaact acctggacaa cgtgagcgcg cgcgttgcgc cctggtgcgg ctgtgaggcc 660
agcggaaacc ggcgcgaaga gtgcgaagcc ttccgcaagc tttttacaag gaacccctgc 720
ttggatggtg ccatacaagc ctttgacagc tcgcaaccat cagttctgca ggaccagtgg 780
aacccctacc agaatgctgg gtgctgtttc ctgtgggtgt cctcgatgtc catactcact 840
gccctggctc tccaggccct gctctaatta ggaaggtgaa ccatggacaa cacagctgac 900
tgccatgtct ctggattatg ctcactgaac tgaaactccc ttgccctcag gtc      953
```

```
<210> 7
```

4

<211> 1008
<212> DNA
<213> Rattus rattus

<400> 7
ctggtaagct ttaaggcaga ggagacctaa gagctgagac atgctatgtt gagtggagcg 60
tatttacggg tgctgaatga gaggccaggc caggcagttt tatggagtct tggatgccag 120
agagggtcag cgagctccac tgaggggaat cgctgcgtgg aagcagccga ggcgtgcaca 180
gcagacgagc agtgccagca gctgcgctcc gagtacgtgg cgcaatgcct gggccgggcg 240
ggctggcggg gacccgggag ctgcgtgcgc tcccgctgcc gccgtgccct cgccgcttc 300
ttcgcccgcg ggcctccggc gctcacgcac gcgctgctct tctgcggatg cgaaggcccc 360
gcgtgcgccg agcgccggcg ccagacattc gcgcccgcct gcgcgttctc cggcccccag 420
ctggcgccac cttcctgcct gaagcccttg gaccgctgcg agcgaagccg ccggtgccgg 480
ccccgtctct ttgccttcca ggcctcatgc gctcccgcgc ccggctcccg cgacggctgt 540
ccggaggagg ggggcccgcg gtgtctgcgc gcctacgcag gccttgtagg caccgtggtc 600
accccaact acctggacaa cgtgagcgcg cgcgttgcgc cctggtgcgg ctgtgaggcc 660
agcggaaacc ggcgcgaaga gtgcgaagcc ttccgcaagc tttttacaag gaacccctgc 720
ttggatggtg ccatacaagc ctttgacagc tcgcaaccat cagttctgca ggaccagtgg 780
aacccctacc agaatgctgg gcaggccaag gtggaggcct gagtggcctg agaagagatg 840
gaggcagaaa cggtccccgt tttgtcccaa ggtgtcctcg atgtccatac tcactgccct 900
ggctctccag gccctgctct aattaggaag gtgaaccatg gacaacacag ctgactgcca 960
tgtctctgga ttatgctcac tgaactgaaa ctcccttgcc ctcaggtc   1008

<210> 8
<211> 273
<212> PRT
<213> Rattus rattus

<400> 8
Met Leu Ser Gly Ala Tyr Leu Arg Val Leu Asn Glu Arg Pro Gly Gln
  1   5   10   15

Ala Val Leu Trp Ser Leu Gly Cys Gln Arg Gly Ser Ala Ser Ser Thr
                20   25   30

Glu Gly Asn Arg Cys Val Glu Ala Ala Glu Ala Cys Thr Ala Asp Glu
            35   40   45

Gln Cys Gln Gln Leu Arg Ser Glu Tyr Val Ala Gln Cys Leu Gly Arg
        50   55   60

Ala Gly Trp Arg Gly Pro Gly Ser Cys Val Arg Ser Arg Cys Arg Arg
65   70   75   80

Ala Leu Arg Arg Phe Phe Ala Arg Gly Pro Pro Ala Leu Thr His Ala
                85   90   95

Leu Leu Phe Cys Gly Cys Glu Gly Pro Ala Cys Ala Glu Arg Arg Arg
                100   105   110

Gln Thr Phe Ala Pro Ala Cys Ala Phe Ser Gly Pro Gln Leu Ala Pro
            115   120   125

Pro Ser Cys Leu Lys Pro Leu Asp Arg Cys Glu Arg Ser Arg Arg Cys
        130   135   140

Arg Pro Arg Leu Phe Ala Phe Gln Ala Ser Cys Ala Pro Ala Pro Gly

5

Ser Arg Asp Gly Cys Pro Glu Glu Gly Gly Pro Arg Cys Leu Arg Ala
                165   170   175

Tyr Ala Gly Leu Val Gly Thr Val Val Thr Pro Asn Tyr Leu Asp Asn
                180   185   190

Val Ser Ala Arg Val Ala Pro Trp Cys Gly Cys Glu Ala Ser Gly Asn
                195   200   205

Arg Arg Glu Glu Cys Glu Ala Phe Arg Lys Leu Phe Thr Arg Asn Pro
    210   215   220

Cys Leu Asp Gly Ala Ile Gln Ala Phe Asp Ser Ser Gln Pro Ser Val
225   230   235   240

Leu Gln Asp Gln Trp Asn Pro Tyr Gln Asn Ala Gly Cys Cys Phe Leu
                245   250   255

Trp Val Ser Ser Met Ser Ile Leu Thr Ala Leu Ala Leu Gln Ala Leu
                260   265   270

Leu

<210> 9
<211> 258
<212> PRT
<213> Rattus rattus

<400> 9
Met Leu Ser Gly Ala Tyr Leu Arg Val Leu Asn Glu Arg Pro Gly Gln
1   5   10   15

Ala Val Leu Trp Ser Leu Gly Cys Gln Arg Gly Ser Ala Ser Ser Thr
                20   25   30

Glu Gly Asn Arg Cys Val Glu Ala Ala Glu Ala Cys Thr Ala Asp Glu
                35   40   45

Gln Cys Gln Gln Leu Arg Ser Glu Tyr Val Ala Gln Cys Leu Gly Arg
    50   55   60

Ala Gly Trp Arg Gly Pro Gly Ser Cys Val Arg Ser Arg Cys Arg Arg
65   70   75   80

Ala Leu Arg Arg Phe Phe Ala Arg Gly Pro Pro Ala Leu Thr His Ala
                85   90   95

Leu Leu Phe Cys Gly Cys Glu Gly Pro Ala Cys Ala Glu Arg Arg Arg
                100   105   110

Gln Thr Phe Ala Pro Ala Cys Ala Phe Ser Gly Pro Gln Leu Ala Pro
                115   120   125

6

```
Pro Ser Cys Leu Lys Pro Leu Asp Arg Cys Glu Arg Ser Arg Arg Cys
    130             135             140
```

```
Arg Pro Arg Leu Phe Ala Phe Gln Ala Ser Cys Ala Pro Ala Pro Gly
145             150             155             160
```

```
Ser Arg Asp Gly Cys Pro Glu Glu Gly Gly Pro Arg Cys Leu Arg Ala
            165             170             175
```

```
Tyr Ala Gly Leu Val Gly Thr Val Val Thr Pro Asn Tyr Leu Asp Asn
            180             185             190
```

```
Val Ser Ala Arg Val Ala Pro Trp Cys Gly Cys Glu Ala Ser Gly Asn
        195             200             205
```

```
Arg Arg Glu Glu Cys Glu Ala Phe Arg Lys Leu Phe Thr Arg Asn Pro
    210             215             220
```

```
Cys Leu Asp Gly Ala Ile Gln Ala Phe Asp Ser Ser Gln Pro Ser Val
225             230             235             240
```

```
Leu Gln Asp Gln Trp Asn Pro Tyr Gln Asn Ala Gly Gln Ala Lys Val
            245             250             255
```

```
Glu Ala
```

```
<210> 10
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:PCT primer

<400> 10
cgcgttgtct gcgcgtctac g                                    21


<210> 11
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:PCR primer

<400> 11
cggcgcgaag aatgcgaagc                                      20


<210> 12
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
```

<223> Description of Artificial Sequence:PCR primer

<400> 12   23
cacccacgta ccatggcatg tgc

<210> 13
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:PCR primer

<400> 13   22
gtggtcaccc ccaactacct gg

<210> 14
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:PCR primer

<400> 14   24
gccttccgca agctttttac aagg

<210> 15
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:PCR primer

<400> 15   22
gctcttctgc ggatgcgaag gc

<210> 16
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:PCR primer

<400> 16   24
agctgccggg tttactgatg ctac

<210> 17
<211> 24
<212> DNA

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:PCR primer

<400> 17
gatgctactc tcccaaggtc aggc   24

<210> 18
<211> 27
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:PCR primer

<400> 18
ctggtaagct ttaaggcaga ggagacc   27

<210> 19
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:PCR primer

<400> 19
catggcagtc agctgtgttg tcc   23

<210> 20
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:PCR primer

<400> 20
cagctgtgtt gtccatggtt cacc   24

<210> 21
<211> 30
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:PCR primer

<400> 21
tggttgcgag ctgtcaaagg cttgtatggc   30

```
<210> 22
<211> 30
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:PCR primer
                                                                    30
<400> 22
ggggttcctt gtaaaaagct tgcggaaggc


<210> 23
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:PCR primer
                                                                    25
<400> 23
ggtccaaggg cttcaggcag gaagg


<210> 24
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:PCR primer
                                                                    22
<400> 24
gccttcgcat ccgcagaaga gc


<210> 25
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:PCR primer
                                                                    23
<400> 25
ccaggtagtt gggggtgacc acg


<210> 26
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:PCR primer

<400> 26
```

cccaggcatt gcgccacgta

<210> 27
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:PCR primer

<400> 27
cattgcgcca cgtactcgga gc

<210> 28
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:PCR primer

<400> 28
gacctgaggg caagggagtt tca

<210> 29
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:PCR primer

<400> 29
gcaagggagt ttcagttcag tgagc

<210> 30
<211> 27
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:PCR primer

<400> 30
ccatcctaat acgactcact atagggc

<210> 31
<211> 23
<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:PCR primer

23

<400> 31
actcactata gggctcgagc ggc